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DATE MAILED: 02/17/2004

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/660,328 09/12/2000		Lydia Avivi	2290.00094	6523
75	90 02/17/2004		EXAM	INER
BROWDY AND NEIMARK		HORLICK, KENNETH R		
624 NINTH ST WASHINGTON	,	ART UNIT	PAPER NUMBER	
W.101111.01.01	,, 20 20001		1637	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Applicatio	n No.	Applicant(s)			
Office Action Summary							
		09/660,32	8 	AVIVI ET AL.			
		Examiner		Art Unit			
		Kenneth R		1637			
The MAILING Period for Reply	DATE of this communication a	ppears on the	cover sneet with the d	orrespondence address			
THE MAILING DATE - Extensions of time may be after SIX (6) MONTHS from the period for reply spectors. If NO period for reply is pectors and the period for reply within the second property received by the second property.	ATUTORY PERIOD FOR REP E OF THIS COMMUNICATION available under the provisions of 37 CFR of the mailing date of this communication. fifed above is less than thirty (30) days, a re- ecified above, the maximum statutory perio- set or extended period for reply will, by statu- Office later than three months after the mail ment. See 37 CFR 1.704(b).	N. 1.136(a). In no eve eply within the statu d will apply and wil ute, cause the appli	nt, however, may a reply be tin tory minimum of thirty (30) day I expire SIX (6) MONTHS from ication to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).			
Status							
1) Responsive to	communication(s) filed on 17	November 20	003.				
2a) ☐ This action is I	Responsive to communication(s) filed on <u>17 November 2003</u> . This action is FINAL . 2b)⊠ This action is non-final.						
<u> </u>	lication is in condition for allow			secution as to the merits is			
	rdance with the practice under	-	·				
Disposition of Claims							
·)3 and 113 is/are pending in th	ne annlication					
	✓ Claim(s) <u>52-103 and 113</u> is/are pending in the application.4a) Of the above claim(s) is/are withdrawn from consideration.						
	5) Claim(s) is/are allowed.						
	6)⊠ Claim(s) <u>52-67,69,70,72-93,95,96,98-103 and 113</u> is/are rejected.						
	Claim(s) <u>68,71,94 and 97</u> is/are objected to.						
	are subject to restriction and	l/or election re	equirement.				
Application Papers							
_	on is objected to by the Evami	ner					
9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority under 35 U.S.C	. § 119						
<u>-</u>	ent is made of a claim for foreig	an priority und	ler 35 II S.C. & 119/a	N-(d) or (f)			
	ome * c) None of:	gii piionty and	ioi oo o.o.o. g 1 10(a)	(0) 01 (1).			
1. Certified copies of the priority documents have been received.							
	copies of the priority docume			on No			
3. Copies	of the certified copies of the pri	iority docume	nts have been receive	ed in this National Stage			
applicati	on from the International Bure	au (PCT Rule	e 17.2(a)).				
* See the attached detailed Office action for a list of the certified copies not received.							
Attachment(s)							
1) Notice of References Ci	ted (PTO-892) Patent Drawing Review (PTO-948)		4) Interview Summary Paper No(s)/Mail Da				
3) 🔯 Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) 5) 🔲 Notice of Informal Patent Application (PTO-152)							
Paper Ne(s)/Mail Date	3122 102 (4p=5es)		6) Other:				

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1. Applicant's election with traverse of Group I in the paper filed 11/17/03 is acknowledged. The traversal is on the ground(s) that new claim 113 links Groups I and II, and therefore that Group II should be examined along with Group I. This is found persuasive, and thus claims 52-103 and 113 are now examined. Withdrawn claims 104-112 have been cancelled.

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- 2. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).
- 3. The oath or declaration is defective. A new oath or declaration in compliance with 37 CFR 1.67(a) identifying this application by application number and filing date is required. See MPEP §§ 602.01 and 602.02.

The oath or declaration is defective because:

It was not executed in accordance with either 37 CFR 1.66 or 1.68. Specifically, the record was found to only contain an oath which was not signed and dated by the inventors.

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 52-67, 69, 70, 72-93, 95, 96, 98-103, and 113 are rejected under 35 U.S.C. 102(e) as being anticipated by Feinberg (US 6,235,474).

Independent claim 113 is drawn to a method comprising: obtaining cells from a body fluid in an individual suspected to have prostate or breast cancer; and determining the synchrony in replication timing between alleles of one or more DNA loci in said cells, wherein abnormal synchrony or asynchrony provides positive predictability of prostate or breast cancer in the individual.

Feinberg discloses a method comprising: obtaining a normal biological sample from a subject, and screening said sample for abnormal imprinting in at least one gene wherein abnormal imprinting indicates the presence of disease. Based on the definition of imprinting in column 8, lines 6-13, and also in other references of record, "imprinting" appears to refer to the same phenomenon as "synchrony" and "asynchrony" in the instant application. Feinberg discloses that the normal cells may be blood cells; that the disease may be prostate as well as breast cancer; and that fluorescence *in situ* hybridization may be used in the determining step. See especially columns 2-3;

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columns 7-8; column 14, line 56 to column 15, line19; column 18, lines 8-33; column 26, lines 50-67; and claims 1-3, 7-10, and 14-20.

- 5. Claims 68, 71, 94, and 97 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims. There is no teaching or suggestion in Feinberg to apply his methods with respect to prostate and breast cancer detection using the specific gene loci as required in these claims.
- 6. No claims are allowable.
- 7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kenneth R Horlick whose telephone number is 703-308-3905. The examiner can normally be reached on Monday-Thursday 6:30AM-5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gary Benzion can be reached on 703-308-1119. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Kenneth R Horlick
Primary Examiner
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02/05/04